

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291706

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2190.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

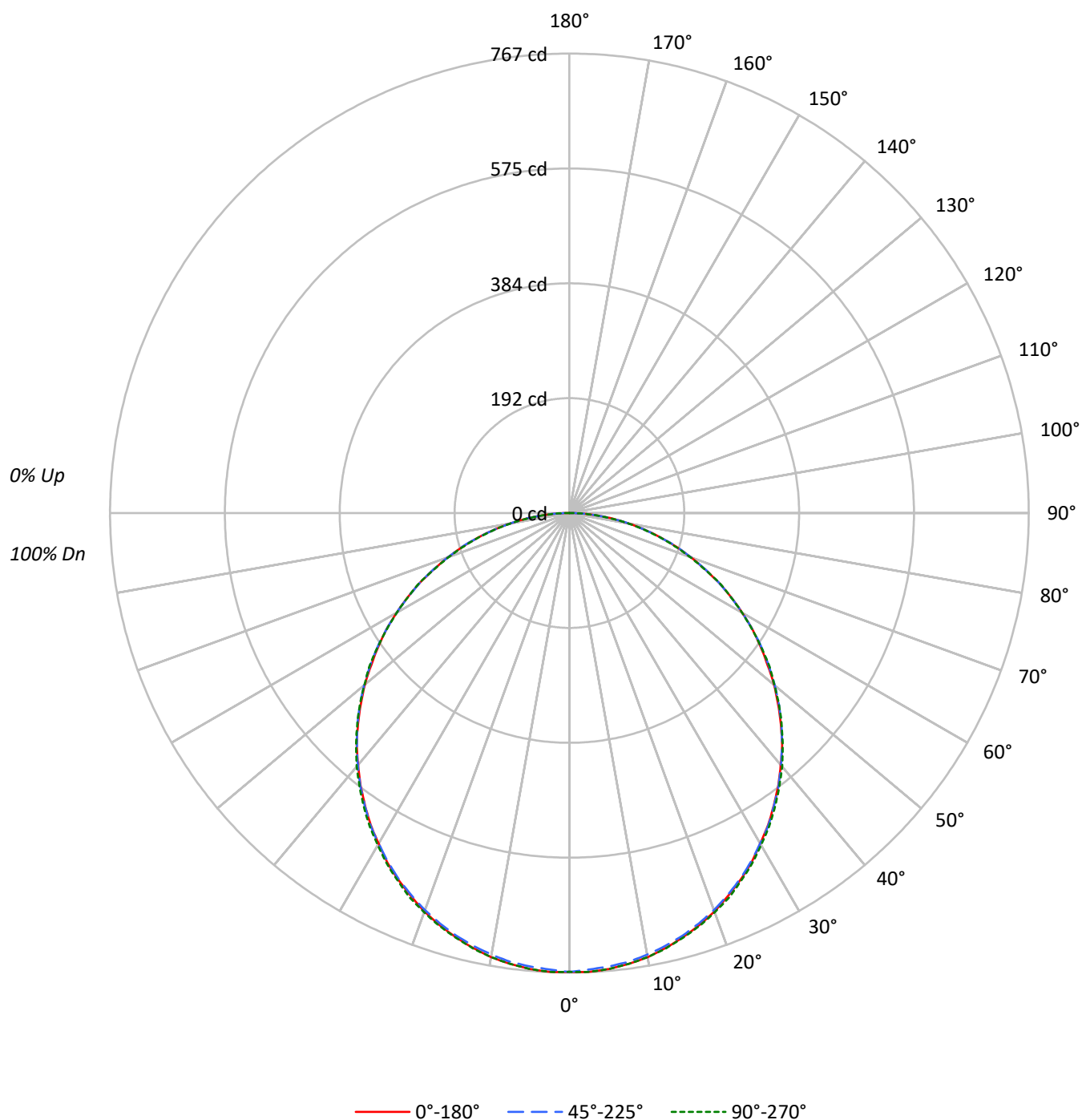
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37		
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33		
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2061	2061	2061
5°	2063	2052	2063
10°	2056	2045	2056
15°	2042	2034	2044
20°	2027	2019	2031
25°	2006	2002	2012
30°	1980	1980	1988
35°	1955	1957	1966
40°	1928	1931	1940
45°	1900	1905	1908
50°	1867	1873	1870
55°	1829	1839	1836
60°	1793	1793	1793
65°	1752	1752	1761
70°	1696	1696	1680
75°	1638	1630	1623
80°	1562	1551	1540
85°	1470	1448	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	3.3
10°-20°	206.7	9.4
20°-30°	311.5	14.2
30°-40°	373.3	17.0
40°-50°	386.0	17.6
50°-60°	350.0	16.0
60°-70°	272.0	12.4
70°-80°	166.1	7.6
80°-90°	52.0	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	590.6	27.0
0°-40°	963.9	44.0
0°-60°	1699.9	77.6
0°-90°	2190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	764	763	760	763	764	73
15°	733	733	730	734	734	207
25°	676	676	674	678	678	311
35°	595	596	596	599	599	372
45°	499	500	501	501	501	385
55°	390	391	392	392	391	349
65°	275	275	275	274	276	272
75°	158	158	157	156	156	167
85°	48	46	47	46	46	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.9	765.9	765.9	765.9	765.9
2.5°	766.6	765.9	762.4	765.9	766.6
5°	763.8	763.1	759.6	763.1	763.8
7.5°	758.9	758.9	755.4	758.9	758.9
10°	752.6	751.9	748.4	751.9	752.6
12.5°	743.5	743.5	740.0	743.5	744.2
15°	733.0	733.0	730.2	733.7	733.7
17.5°	721.1	721.8	718.3	722.5	722.5
20°	707.8	707.1	705.0	708.5	709.2
22.5°	691.7	692.4	690.3	694.5	695.2
25°	675.6	675.6	674.2	678.4	677.7
27.5°	658.1	658.1	656.0	659.5	660.2
30°	637.1	637.8	637.1	640.6	639.9
32.5°	617.5	618.2	618.2	619.6	620.3
35°	595.1	595.8	595.8	598.6	598.6
37.5°	572.7	572.7	573.4	575.5	575.5
40°	548.9	549.6	549.6	551.7	552.4
42.5°	525.8	524.4	525.1	527.2	527.2
45°	499.2	499.9	500.6	501.3	501.3
47.5°	472.6	474.0	474.7	475.4	474.7
50°	446.0	447.4	447.4	446.7	446.7
52.5°	417.2	420.7	420.0	420.0	421.4
55°	389.9	391.3	392.0	392.0	391.3
57.5°	362.6	364.0	362.6	363.3	361.9
60°	333.2	333.9	333.2	333.2	333.2
62.5°	304.5	305.2	303.8	303.8	303.8
65°	275.1	275.1	275.1	273.7	276.5
67.5°	244.3	245.7	245.7	246.4	243.6
70°	215.6	216.3	215.6	214.9	213.5
72.5°	186.9	187.6	188.3	185.5	184.8
75°	157.5	157.5	156.8	156.1	156.1
77.5°	128.8	128.8	128.8	127.4	127.4
80°	100.8	101.5	100.1	100.1	99.4
82.5°	73.5	73.5	73.5	72.8	71.4
85°	47.6	46.2	46.9	45.5	45.5
87.5°	21.7	21.7	21.7	20.3	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)